

STRUCTURAL REPAIR

(C-141)

1. Objective. As prescribed in AFR 8-10, this Air National Guard Manpower Standard (ANGMS) quantifies the full-time manpower requirement to accomplish the tasks described in the work center description for varying levels of workload volume.

2. Authority. Air National Guard (ANG) Regulation 66-14 contains ANG policy and procedural guidance for the Structural Repair work center. This ANGMS has been developed in accordance with procedures contained in AFR 25-5, 16 May 88. This ANGMS is a result of a functional review.

3. Applicability. This standard applies to ANG C-141 Air Mobility Command gained flying units. This standard applies only to peacetime operations.

4. Standard Data:

- a. **Classification.** Type III.
- b. **Approval Date.** 4 Jan 93.
- c. **Man-Hour Data Source.** Operational Audit (historical record and technical estimate techniques).
- d. **Standard Man-Hour Equation.** $Y = 28.57 + 3.841X_1 + 15.61X_2$.
- e. **Workload Factor:**
 - (1) **Title:**
 - (a) X_1 . A Programmed Flying Hour.
 - (b) X_2 . A C-141 Aircraft Authorized.
 - (2) **Definition:**
 - (a) X_1 . The average monthly programmed flying hours.
 - (b) X_2 . The average monthly C-141 aircraft authorized.
 - (3) **Source of Count:**
 - (a) X_1 . USAF Program Document (PD), Volume II, maintained by NGB/FM.
 - (b) X_2 . USAF Program Document (PD), Volume II, maintained by NGB/FM.

5. Application Instructions:

- a. The valid man-hour range for this ANGMS is 1099.24 through 1832.06. Should the extrapolation limits be exceeded, see AFR 26-1, Volume III, paragraph 1-20 for guidance.
- b. The AF Form 1113, Standard Manpower Table, is an aggregate of total manpower by specialty title and Air Force Specialty Code (AFSC). The applicable instructions are as follows:
 - (1) Determine the values for the two workload factors (WLFs) identified in paragraph 4e.
 - (2) Substitute the appropriate WLF value into the man-hour equation for X_1 and X_2 .
 - (3) Divide the total man-hours by the current civilian man-hour availability factor to determine total requirements.
 - (4) Find the column in which the number of required authorizations fall; read up to determine manpower by AFSC.
- c. Fractional manpower requirements resulting from application of this standard will not be aggregated.

6. Statement of Conditions. This work center's normal hours of operation are 8 hours a day, 5 days a week. There are no other standard of living constraints which affect the daily operation of this work center.

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2 Attachments
1. Work Order Description
2. Standard Manpower Table

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WORK CENTER DESCRIPTION**Structural Repair****(C-141)****DIRECT:****1. ON-EQUIPMENT MAINTENANCE:**

1.1. PERFORMS AIRCRAFT STRUCTURAL REPAIR: Inspects, evaluates damage, and performs structural repair.

1.1.1. REPAIRS AIRCRAFT AIRFRAME COMPONENT.

1.1.2. REPAIRS AIRCRAFT FUSELAGE COMPARTMENT NOSE EQUIPMENT AREA COMPONENT.

1.1.3. REPAIRS AIRCRAFT LANDING GEAR COMPONENT.

1.1.4. REPAIRS AIRCRAFT FLIGHT CONTROL COMPONENT.

1.1.5. REPAIRS AIRCRAFT TURBOFAN POWER PLANT COMPONENT.

1.1.6. REPAIRS AUXILIARY POWER PLANT COMPONENT.

1.1.7. REPAIRS AIR CONDITIONING, PRESSURIZATION, AND SURFACE ICE CONTROL COMPONENT.

1.1.8. REPAIRS ELECTRICAL POWER SUPPLY COMPONENT.

1.1.9. REPAIRS LIGHTING SYSTEM COMPONENT.

1.1.10. PERFORMS MAINTENANCE ON HYDRAULIC POWER SYSTEM.

1.1.11. REPAIRS FUEL SYSTEM COMPONENT.

1.1.12. REPAIRS OXYGEN SYSTEM COMPONENT.

1.1.13. REPAIRS MISCELLANEOUS UTILITY COMPONENT.

1.1.14. REPAIRS AIRCRAFT INSTRUMENT COMPONENT.

1.1.15. REPAIRS AIRCRAFT AUTOPILOT COMPONENT.

1.1.16. REPAIRS AIRCRAFT COMMUNICATIONS COMPONENT.

1.1.17. REPAIRS RADIO NAVIGATION EQUIPMENT COMPONENT.

1.1.18. REPAIRS RADAR NAVIGATION COMPONENT.

1.1.19. REPAIRS EMERGENCY EQUIPMENT COMPONENT.

2. OFF-EQUIPMENT MAINTENANCE:

2.1. PERFORMS AIRCRAFT STRUCTURAL REPAIR AND FABRICATION: Inspects, bench checks, evaluates off-equipment, and determines disposition.

2.1.1. REPAIRS AIRCRAFT AIRFRAME COMPONENT.

2.1.2. REPAIRS AIRCRAFT FUSELAGE COMPARTMENT NOSE EQUIPMENT AREA COMPONENT.

2.1.3. REPAIRS AIRCRAFT LANDING GEAR COMPONENT.

2.1.4. REPAIRS AIRCRAFT FLIGHT CONTROL COMPONENT.

2.1.5. REPAIRS AIRCRAFT TURBOFAN POWER PLANT COMPONENT.

2.1.6. REPAIRS AUXILIARY POWER PLANT COMPONENT.

2.1.7. REPAIRS AIR CONDITIONING, PRESSURIZATION, AND SURFACE ICE CONTROL COMPONENT.

2.1.8. REPAIRS ELECTRICAL POWER SUPPLY COMPONENT.

2.1.9. REPAIRS AIRCRAFT LIGHTING SYSTEM COMPONENT.

2.1.10. REPAIRS HYDRAULIC POWER SYSTEM COMPONENT.

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2.1.12. REPAIRS OXYGEN SYSTEM COMPONENT.

2.1.13. REPAIRS MISCELLANEOUS UTILITY SYSTEM COMPONENT.

2.1.14. REPAIRS AIRCRAFT INSTRUMENT COMPONENT.

2.1.15. REPAIRS AIRCRAFT AUTOPILOT COMPONENT.

2.1.16. REPAIRS AIRCRAFT ULTRA HIGH FREQUENCY COMMUNICATIONS SYSTEMS COMPONENT.

2.1.17. REPAIRS AIRCRAFT EMERGENCY EQUIPMENT COMPONENT.

3. AEROSPACE GROUND EQUIPMENT (AGE)/SHOP INDUSTRIAL EQUIPMENT. Repairs AGE/shop industrial equipment.

4. FABRICATION. Performs local manufacture of part, assembly, and unit not included in categories 1 and 2.

5. SPECIAL INSPECTION. Performs special inspection.

6. DIRECT LABOR MAINTENANCE. Assists in the performance of direct labor maintenance requirement to ensure the effective utilization of maintenance personnel.

7. UNIT TRAINING ASSEMBLY (UTA) AND MOBILITY REQUIREMENT. Performs planning/scheduling task associated with preparation for UTA weekend and mobility requirement.

INDIRECT: Indirect work involves those tasks that are not readily identifiable with the work center's specific product or service. The major categories of standard indirect work are Supervision, Administration, Meeting, Training, Supply, Equipment Maintenance, and Cleanup. See AFMS 00AA for the standard indirect description.

STANDARD MANPOWER TABLE											
WORK CENTER/FAC			APPLICABILITY MAN-HOUR RANGE								
Structrual Repair/23130A			1099.24 - 1832.06								
AIR FORCE SPECIALTY TITLE	AFSC	GRADE	MANPOWER REQUIREMENT								
Systems Maintenance	454XX	CIV	1	1	1	1	1	1			
Acft Structural Maint	458X2	CIV	6	7	8	9	10	11			
TOTAL			7	8	9	10	11	12			
AIR FORCE SPECIALTY TITLE	AFSC	GRADE	MANPOWER REQUIREMENT								
TOTAL											